Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1891430	head$1 root$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:48
L2	1120069	subject$1 noun$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:49
L3	11	(us-20030061202$ us-6564263$ us-5893088$ us-5983237$ us-5471382$ us-5487132$ us-5784539$ us-6,006,221$ us-6,556,983$ us-5,644,686$ us-5,819,271$).did.	US-PGPUB; USPAT	OR	ON	2005/04/12 16:49
L4	2	("5,577,166" "5,056,021").pn.	USPAT	OR	ON	2005/04/12 16:49
L5	13	L3 xor L4 L3 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:49
L6	2	("6167370" "5933822").pn.	USPAT	OR	ON	2005/04/12 16:49
L7	15	L5 xor L6 L5 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:49
L8	9	1 and L7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:51
L9	11	2 and L7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:50
L10	33522	1 same 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:59
L11	1	10 and L7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06

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L21	955	L12 xor L19 L12 and L19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:53
L22	1529	L20 xor L21 L20 and L21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:53
L23	85	10 and L22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L24	3166046	@ad<="20010117"	USPAT	OR	ON	2005/04/12 16:57
L25	78	23 and L24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L26	75	706/55.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L27	760	706/45.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L28	545	706/20.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L29	171	706/21.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L30	233	706/11.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57

L31	82	706/53.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L32	96	706/61.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L33	839	706/25.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L34	61	706/925.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L35	49	706/934.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L36	1588	707/5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L37	3925	707/104.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L38	4974	707/3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L39	1129	707/9.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
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L41	844	707/7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L42	4540	707/10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L43	702	704/2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L44	339	704/8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L45	863	704/9.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L46	798	715/500.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L47	116	715/527.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
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L49	988	715/501.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L50	1737	707/4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57

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L52	826	L26 xor L27 L26 and L27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L53	694	L28 xor L29 L28 and L29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L54	307	L30 xor L31 L30 and L31	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L55	931	L32 xor L33 L32 and L33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L56	106	L34 xor L35 L34 and L35	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L57	5336	L36 xor L37 L36 and L37	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L58	5987	L38 xor L39 L38 and L39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L59	2456	L40 xor L41 L40 and L41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
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L61	1159	L44 xor L45 L44 and L45	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L62	914	L46 xor L47 L46 and L47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L63	1316	L48 xor L49 L48 and L49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L64	2593	L50 xor L51 L50 and L51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L65	1489	L52 xor L53 L52 and L53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L66	1230	L54 xor L55 L54 and L55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
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L68	7947	L58 xor L59 L58 and L59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L69	6243	L60 xor L61 L60 and L61	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L70	2133	L62 xor L63 L62 and L63	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57

L71	4060	L65 xor L64 L65 and L64	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L72	6623	L66 xor L67 L66 and L67	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L73	12799	L68 xor L69 L68 and L69	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L74	6105	L70 xor L71 L70 and L71	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L75	9630	L71 xor L72 L71 and L72	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L76	17438	L73 xor L74 L73 and L74	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L77	21274	L75 xor L76 L75 and L76	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L78	68	25 and L77	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:57
L79	4533	root$1 same 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:01
L80	34	79 and 78	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 16:59

L81	4352	root$1 same subject$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:01
L82	9	80 and 81	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:36
L83	1590109	strength$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L84	7793794	L83 rank$6 count$6 order$6 sum$6 measur$6 averag$6 relevan$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L85	2979097	text$1 document$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L86	36797	sentenc$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L87	11	(us-20030061202$ us-6564263$ us-5893088$ us-5983237$ us-5471382$ us-5487132$ us-5784539$ us-6,006,221$ us-6,556,983$ us-5,644,686$ us-5,819,271$).did.	US-PGPUB; USPAT	OR	ON	2005/04/12 17:06
L88	2	("5,577,166" "5,056,021").pn.	USPAT	OR	ON	2005/04/12 17:06
L89	13	L87 xor L88 L87 and L88	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L90	2	("6167370" "5933822").pn.	USPAT	OR	ON	2005/04/12 17:06
L91	15	L89 xor L90 L89 and L90	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06

L92	156782	L84 same L85	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L93	8303	L84 same L86	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L94	3568	L93 and L92	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L95	4	L94 and L91	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L96	928898	graph$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L97	312824	rul$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L98	2899171	(data adj base$1) database$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L99	781398	link$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L100	98769	quer$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L101	209312	question$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06

L102	127960	answer$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L103	366986	L100 L101 L102	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L104	5567561	relat$8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L105	323401	node$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
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L108	15774	L96 and L99 and L103 and L105	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L109	1	L108 and L107	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L110	1	L95 and L109	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L111	1	10 and L110	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:06
L113	0	82 and 96 and tree$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:37

L114	6	82 and 96	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:37
L115	2	82 and tree$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/12 17:37

Web Results **1** - **10** of about **256** for **+"~auxiliary ~verbs" +"~main ~verbs" +~replacing**. (**0.30** seconds)

Wh - Questions
... Auxiliary or "helping" verbs are verbs that precede **main verbs**. **Auxiliary verbs** are italicized in the following sentences. I can do it. ...
www.eslgold.com/site.jsp?resource=pag_ stu_grammar_expl_exa_exer_lb_wh_ques - 21k - Cached - Similar pages

Introduction to traditional grammar
... Verbs are divided into two classes, **main verbs** and **auxiliary verbs**. ... Subordinate clauses, like phrases, can **replace** nouns (or pronouns), adjectives, ...
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[PDF] Moving verbs in agrammatic production Introduction
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... for instance, used the infinitive as **main verbs** in matrix clauses 53% of the ... Hebrew infinitive does not appear as a complement of **auxiliary verbs**. ...
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... which cannot serve as the **main verbs** of a sentence but generally serve to ... The **auxiliary verbs** often appear in I. Radford has had us up until now ...
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Analyzing English Grammar (pt.IV)
... (149) A Recap: The Three **Auxiliary Verbs** and their Grammars ... but grammatically different) Auxiliary/**Main Verbs** is to consider the logic behind the ...
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Module 1
... is, are, was, were are **main verbs** too, and are affected by agreement. Other modal **auxiliary verbs**, irrespective of the subject, are always followed by ...
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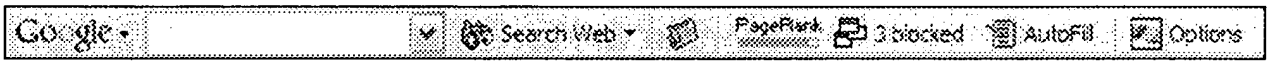

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... Auxiliary or "helping" verbs are verbs that precede **main verbs**. **Auxiliary verbs** are italicized in the following sentences. I can do it. ...
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The **auxiliary verbs** often appear in I. Radford has had us up until now ...
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... is, are, was, were are **main verbs** too, and are affected by agreement.
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... (149) A Recap: The Three **Auxiliary Verbs** and their Grammars ... but grammatically different) Auxiliary/**Main Verbs** is to consider the logic behind the ...
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are used in conjunction with **main verbs** to express shades of time and mood. ...
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... In these sentences, going, arrived and play are the **main verbs**. Are, has and can are **auxiliary verbs**, and add extra meaning to the main verb. ...
www.standards.dfes.gov.uk/primary/ publications/literacy/nls_framework/glossary/ - 143k - Cached - Similar pages

Introduction to traditional grammar
... Verbs are divided into two classes, **main verbs** and **auxiliary verbs**. ...
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... of Adverbs and **Auxiliary Verbs** in the Southwestern Turkic Languages. ...
"On Palmer's Defense of the Distinction between Auxiliaries and **Main Verbs**. ...
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Relevance scale

1 A heuristic approach to natural language processing

Denis M. Manelski, Gilbert K. Krulee

May 1965 **Proceedings of the 1965 conference on Computational linguistics**

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references

This paper is concerned with the design of a processor capable of formalizing English language descriptions of problems in the sentential calculus. The emphasis is on the design of a system with natural language processing capabilities, but the formal languages specified are oriented to the problem context.A series of automata are specified to carry out the necessary functions. The automata identifythe premises in the problem strings, specify the appropriate logical connectives among the premise ...

2 Systems: The multimedia articulation of answers in a natural language database query system

Susan E. Brennan

February 1988 **Proceedings of the second conference on Applied natural language processing**

Full text available: pdf(610.08 KB) Publisher Site Additional Information: full citation, abstract, references

This paper describes a domain independent strategy for the multimedia articulation of answers elicited by a natural language interface to database query applications. Multimedia answers include videodisc images and heuristically-produced complete sentences in text or text-to-speech form. Deictic reference and feedback about the discourse are enabled. The interface thus presents the application as cooperative and conversational.

3 PALKA: a system for lexical knowledge acquisition

Jun-Tae Kim, Dan I. Moldovan

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Full text available: pdf(741.64 KB) Additional Information: full citation, references, index terms

4 Papers: An empirical architecture for verb subcategorization frame: a lexicon for a real-world scale Japanese-English interlingual MT

Naoyuki Nomura, Kazunori Muraki

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**

Full text available: pdf(581.90 KB) Additional Information: full citation, abstract, references

The verb subcategorization frame information plays a major role of disambiguations in many NLP applications. Japanese, however, imposes difficulties of subcategorizing in part because it allows arbitrary ellipses of case elements. We propose a new type of verb subcategorization frame code set that combines the verb's surface case set and the deep case set, as a solution to the difficulties of empirical researches on Japanese. The lexicon developed by this design has comprehensive information on ...

5 Resolving lexical ambiguity in a deterministic parser

Robert Milne

January 1986 **Computational Linguistics**, Volume 12 Issue 1

Full text available: pdf(1.26 MB) Publisher Site Additional Information: full citation, abstract, references, citings

Lexical ambiguity and especially part-of-speech ambiguity is the source of much non-determinism in parsing. As a result, the resolution of lexical ambiguity presents deterministic parsing with a major test. If deterministic parsing is to be viable, it must be shown that lexical ambiguity can be resolved easily deterministically. In this paper, it is shown that Marcus's "diagnostics" can be handled without any mechanisms beyond what is required to parse grammatical sentences and reject ungrammati ...

6 Transition network grammars for natural language analysis

W. A. Woods

October 1970 **Communications of the ACM**, Volume 13 Issue 10

Full text available: pdf(1.99 MB) Additional Information: full citation, abstract, references, citings

The use of augmented transition network grammars for the analysis of natural language sentences is described. Structure-building actions associated with the arcs of the grammar network allow for the reordering, restructuring, and copying of constituents necessary to produce deep-structure representations of the type normally obtained from a transformational analysis, and conditions on the arcs allow for a powerful selectivity which can rule out meaningless analyses and take advantage of sem ...

Keywords: computational linguistics, grammar models, grammars, linguistics, natural languages analysis, parsing, semantic interpretation, transformational grammars, transition network grammars

7 Grammar III: Formal specification of natural language syntax using two-level grammar

Barrett R. Bryant, Dale Johnson, Balanjaninath Edupuganty

August 1986 **Proceedings of the 11th coference on Computational linguistics**

Full text available: pdf(664.96 KB) Additional Information: full citation, abstract, references

The two-level grammar is investigated as a notation for giving formal specification of the context-free and context-sensitive aspects of natural language syntax. In this paper, a large class of English declarative sentences, including post-noun-modification by relative clauses, is formalized using a two-level grammar. The principal advantages of two-level grammar are: 1) it is very easy to understand and may be used to give a formal description using a structured form of natural language; 2) it ...

8 A type-theoretical analysis of complex verb generation

Satoshi Tojo

August 1990 **Proceedings of the 13th conference on Computational linguistics - Volume**

2

Full text available: pdf(479.31 KB) Additional Information: full citation, abstract, references

Tense and aspect, together with mood and modality, usually form the entangled structure of a complex verb. They are often hard to translate by machines, because of both syntactic and semantic differences between languages. This problem seriously affects upon the generation process because those verb components in interlingua are hardly rearranged correctly in the target language. We propose here a method in which each verb element is defined as a mathematical function according to its type of ty ...

9 A multilevel approach to handle non-standard input

Manfred Gehrke

September 1983 **Proceedings of the first conference on European chapter of the Association for Computational Linguistics**

Full text available: pdf(302.35 KB) Publisher Site Additional Information: full citation, abstract, references

In the project "Procedural Dialogue Models" being carried on at the University of Bielefeld we have developed an incremental multilevel parsing formalism to reconstruct task-oriented dialogues. A major difficulty we have had to overcome is that the dialogues are real ones with numerous ungrammatical utterances. The approach we have devised to cope with this problem is reported here.

10 Design of a hybrid deterministic parser

Kanaan A. Faisal, Stan C. Kwasny

August 1990 **Proceedings of the 13th conference on Computational linguistics - Volume 1**

Full text available: pdf(679.06 KB) Additional Information: full citation, references, citings

11 Informatics: machine translation: English-Japanese translation through case-structure conversion

Fujio Nishida, Shinobu Takamatsu, Hiroaki Kuroki

September 1980 **Proceedings of the 8th conference on Computational linguistics**

Full text available: pdf(639.91 KB) Additional Information: full citation, abstract, references, citings

This paper reports some trials on mechanical translation from English to Japanese through a case structure constructed on Hornby's verb patterns. Though the general theoryof case structures is still at the beginning of study, it provides partial sentential patterns with rough but resonable classification labels. After determination of schematic dependency relations, multi-vocal problems for choosing appropriate equivalents are dissolved using subcategories of terms and cases. Case structures of ...

12 Informatics: machine translation: A machine translation system from Japanese into English: another perspective of MT systems

M. Nagao, J. Tsujii, K. Mitamura, H. Hirakawa, M. Kume

September 1980 **Proceedings of the 8th conference on Computational linguistics**

Full text available: pdf(950.30 KB) Additional Information: full citation, references, citings

13 Slot grammars

Michael C. McCord

January 1980 **Computational Linguistics**, Volume 6 Issue 1

Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

This paper presents an approach to natural language grammars and parsing in which slots and rules for filling them play a major role. The system described provides a natural way of handling a wide variety of grammatical phenomena, such as WH-movement, verb dependencies, and agreement.

14 Information extraction: Is question answering an acquired skill?
Ganesh Ramakrishnan, Soumen Chakrabarti, Deepa Paranjpe, Pushpak Bhattacharya
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(260.13 KB) Additional Information: full citation, abstract, references, index terms

We present a question answering (QA) system which learns how to detect and rank answer passages by analyzing questions and their answers (QA pairs) provided as training data. We built our system in only a few person-months using off-the-shelf components: a part-of-speech tagger, a shallow parser, a lexical network, and a few well-known supervised learning algorithms. In contrast, many of the top TREC QA systems are large group efforts, using customized ontologies, question classifiers, and highl ...

Keywords: machine learning, question answering

15 Parsing Japanese honorifics in unification-based grammar
Hiroyuki Maeda, Susumu Kato, Kiyoshi Kogure, Hitoshi Iida
June 1988 **Proceedings of the 26th conference on Association for Computational Linguistics**

Full text available: pdf(609.75 KB) Additional Information: full citation, abstract, references, citings
Publisher Site

This paper presents a unification-based approach to Japanese honorifics based on a version of HPSG (Head-driven Phrase Structure Grammar). Utterance parsing is based on lexical specifications of each lexical item, including honorifics, and a few general PSG rules using a parser capable of unifying cyclic feature structures. It is shown that the possible word orders of Japanese honorific predicate constituents can be automatically deduced in the proposed framework without independently specifying ...

16 Restricting logic grammars with government-binding theory
Edward P. Stabler
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

A parser formalism for natural languages that is so restricted as to rule out the definition of linguistic structures that do not occur in any natural language can make the task of grammar construction easier, whether it is done manually (by a programmer) or automatically (by a grammar induction system). A restrictive grammar formalism for logic programming languages is presented that imposes some of the constraints suggested by recent Chomskian linguistic theory. In spite of these restrictions, ...

17 TINA: a natural language system for spoken language applications
Stephanie Seneff
March 1992 **Computational Linguistics**, Volume 18 Issue 1

Full text available: pdf(1.86 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

A new natural language system, *TINA*, has been developed for applications involving spoken language tasks. *TINA* integrates key ideas from context free grammars, Augmented Transition Networks (ATN's), and the unification concept. *TINA* provides a seamless interface between syntactic and semantic analysis, and also produces a highly constraining probabilistic language model to improve recognition performance. An initial set of context-free rewrite rules provided by hand is first ...

18 D-tree substitution grammars

Owen Rambow, David Weir, K. Vijay-Shanker
March 2001 **Computational Linguistics**, Volume 27 Issue 1

Full text available: pdf(2.07 MB) Additional Information: full citation, abstract, references
Publisher Site

There is considerable interest among computational linguists in lexicalized grammatical frame-works; lexicalized tree adjoining grammar (LTAG) is one widely studied example. In this paper, we investigate how derivations in LTAG can be viewed not as manipulations of trees but as manipulations of tree descriptions. Changing the way the lexicalized formalism is viewed raises questions as to the desirability of certain aspects of the formalism. We present a new formalism, d-tree substitution grammar ...

19 Sentence planning as description using tree adjoining grammar

Matthew Stone, Christine Doran
July 1997

Full text available: pdf(718.02 KB) Additional Information: full citation, abstract, references, citings
Publisher Site

We present an algorithm for simultaneously constructing both the syntax and semantics of a sentence using a Lexicalized Tree Adjoining Grammar (LTAG). This approach captures naturally and elegantly the interaction between pragmatic and syntactic constraints on descriptions in a sentence, and the inferential interactions between multiple descriptions in a sentence. At the same time, it exploits linguistically motivated, declarative specifications of the discourse functions of syntactic constructi ...

20 PCFG models of linguistic tree representations

Mark Johnson
December 1998 **Computational Linguistics**, Volume 24 Issue 4

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

The kinds of tree representations used in a treebank corpus can have a dramatic effect on performance of a parser based on the PCFG estimated from that corpus, causing the estimated likelihood of a tree to differ substantially from its frequency in the training corpus. This paper points out that the Penn II treebank representations are of the kind predicted to have such an effect, and describes a simple node relabeling transformation that improves a treebank PCFG-based parser's average precision ...

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